WEAR CONTAMINATION FLUID CONDITION

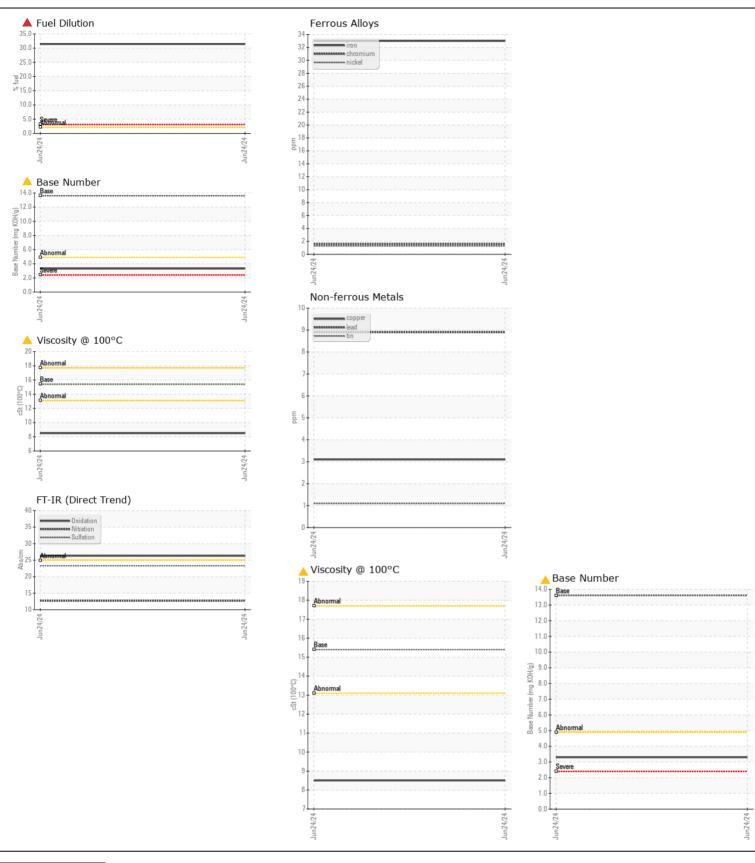
NORMAL SEVERE ABNORMAL

Machine Id

JOHN DEERE Mil Fed 650k (S/N 272296)

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0220966		
	Sample Date		Client Info		24 Jun 2024		
	Machine Age	hrs	Client Info		2986		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				SEVERE		
/EAR	Iron	ppm	ASTM D5185m	>51	33		
	Chromium	ppm	ASTM D5185m	>11	2		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		9		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m		1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	nnm	ASTM D5185m	. 22	л		
ONTAMINATION	Potassium	ppm	ASTM D5185m		4 3		
There is a high amount of fuel present in the oil.	Fuel	ppm %	ASTM D3763111	>2.1	3 ▲ 31.4		
	Water	70	WC Method		NEG		
	Glycol		WC Method	>0.21	NEG		
	Soot %	%	*ASTM D7844	- 2	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	12.7		
	Sulfation	Abs/.1mm	*ASTM D7024		23.3		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
		scalar	*Visual	NORML	NORML		
	Appearance Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	0		
Fuel is present in the oil and is lowering the viscosity. The BN level is low. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		10		
	Barium	ppm	ASTM D5185m		1		
	Molybdenum	ppm	ASTM D5185m		48		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		582		
	Calcium	ppm	ASTM D5185m		691		
	Phosphorus	ppm	ASTM D5185m		575		
	Zinc	ppm	ASTM D5185m		770		
	Sulfur	ppm	ASTM D5185m		1751		
	Oxidation	Abs/.1mm	*ASTM D7414		26.3		
	Base Number (BN)	mg KOH/g	ASTM D2896		△ 3.3		
	Visc @ 100°C	cSt	ASTM D445	15 /	8.5		







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06219543 Unique Number : 11097740

: JR0220966

Received **Tested** Diagnosed

: 25 Jun 2024 : 28 Jun 2024

: 28 Jun 2024 - Jonathan Hester

JRE - NEW BERN 3816 MARTIN LUTHER KING BLVD NEW BERN, NC

US 28562

Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: NEW BERN SHOP nick.etherdridge@jamesriverequipment.com;canastasio@wearcheckusa.com T:

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: RWMNEW [WUSCAR] 06219543 (Generated: 06/29/2024 07:59:52) Rev: 1

Submitted By: NEW BERN SHOP

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